

7-31-02

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GP/26448-62

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): James A. Moorer

Assignee: Sonic Solutions, Inc.

Title: Ultra-Directional Microphones

Application No.: 09/919,742

Filing Date: July 31, 2001

Examiner:

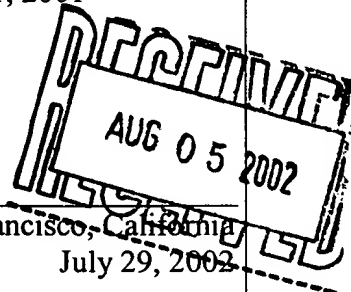
Group Art Unit: 2644

Docket No.: M-11445 US

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INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO-1449 are called to the attention of the Examiner for the above patent application. Copies of these documents are enclosed.

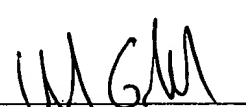
Citation of these documents shall not be construed as:

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2. a representation that a search has been made, other than as described above; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

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Respectfully submitted,

  
Michael G. Cleveland  
Reg. No. 46,030

  
Date

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U.S. Department of Commerce, Patent and Trademark Office						Atty Docket No.		Serial No.	
						M-11445 US		09/919,742	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT						Applicant(s)			
(Use several sheets if necessary)						Moorer, James A.			
						Filing Date		Group	
						July 31, 2001		2644	
U.S. Patent Documents									
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
	AA	4,703,506	10/27/1987	Sakamoto et al.					
	AB	4,802,227	1/31/1989	Elko et al.					
	AC	4,922,536	5/1/1990	Hoque					
	AD	5,051,799	9/24/1991	Paul et al.					
	AE	5,058,170	10/15/1991	Kanamori et al.					
	AF	5,483,599	1/9/1996	Zagorski					
	AG	5,737,430	4/7/1998	Widrow					
	AH	5,940,118	8/17/1999	Van Schyndel					
	AI								
	AJ								
	AK								
Foreign Patent Documents									
							Translation		
		Document	Date	Country	Class	Subclass	Yes	No	
	AL	WO 00/52959	9/8/2000	WIPO					
	AM	WO 99/53336	10/21/1999	WIPO					
	AN	WO 99/27754	6/3/1999	WIPO					
	AO	2 097 121 A	4/21/1981	Great Britain					
	AP	2 104 218 A	7/28/1981	Great Britain					
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AQ	Peacock, Kenneth L., "On the Practical Design of Discrete Velocity Filters for Seismic Data Processing," <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol. ASSP-30, No. 1, 2/1982, pp. 52-60.							
	AR	Gerzon, Michael, "Ultra-Directional Microphones: Applications of Blumlein Difference Technique: Part 1," <u>Studio Sound</u> , Volume 12, 10/1970, pp. 434-437.							
	AS	Gerzon, Michael, "Ultra-Directional Microphones: Applications of Blumlein Difference Technique: Part 2," <u>Studio Sound</u> , Volume 12, 11/1970, pp. 501-504.							
Examiner			Date Considered						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.									

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Foreign Patent Documents									
							Translation		
		Document	Date	Country	Class	Subclass	Yes	No	
	AB								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AC	Gerzon, Michael, "Ultra-Directional Microphones: Applications of Blumlein Difference Technique: Part 3," <u>Studio Sound</u> , Volume 12, 12/1970, pp. 539-543.							
	AD	Skolnik, Merrill I., <u>Radar Handbook</u> , 1990							
	AE	Harry F. Olson "Directional Microphones," <u>Journal of the Audio Engineering Society</u> , October 1967. [0002]							
	AF	B.R. Beavers, R. Brown "Third-Order Gradient Microphone for Speech Reception" <u>Journal of the Audio Engineering Society</u> , December 1970. [0002] NOTE: These two articles, 1) and 2), are included in "Microphones: An Anthology of Articles on Microphones from the Pages of the Journal of the Audio							
	AG	Section 9.1, pp. 128-134, of Leland B. Jackson "Digital Filters and Signal Processing," <u>Kluwer Academic Publishers, Hingham, MA USA</u> , 1996. [0029]							
	AH	Sections 2.5 and 8.6 of Gene H. Golub, Charles F. Van Loan "Matrix Computations: Third Edition" <u>Johns Hopkins University Press, Baltimore MD USA</u> , 1996. [0037]							
	AI	J.H. McClellan, T.W. Parks, L.R. Rabiner "A Computer Program for Designing Optimum FIR Linear Phase Digital Filters" <u>IEEE Transactions on Audio and Electroacoustics</u> , Volume AU-21, pp. 506-526, December 1973. [0039]							
	AJ	Andrew G. Deczky "Synthesis of Recursive Digital Filters Using the Minimum p-Error Criterion" <u>IEEE Transactions on Audio and Electroacoustics</u> , Volume AU-20, pp. 257-263, October 1972. [0039]							
	AK	Metcalfe, R.M., and Boggs, D.R. "Ethernet: Distributed Packet Switching for Local Computer Networks", <u>Communications of the ACM</u> , Volume 19, Number 7, pp. 395-404, July 1976. [0072]							
	AL	Patrick M. Peterson "Adaptive Array Processing for Multiple Microphone Hearing Aids" <u>RLE Technical Report No. 541</u> , February 1989. (This is from: RLE (Research Laboratory of Electronics), MIT, Cambridge, MA 02139							
Examiner				Date Considered					
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	AA								
Foreign Patent Documents									
							Translation		
		Document	Date	Country	Class	Subclass	Yes	No	
	AB								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AC	Chou, Thomas, "Frequency-Independent Beamformer With Low Response Error," <u>IEEE Conference on Acoustics, Speech, and Signal Processing</u> , Volume 5, pp. 2995-2998, 1995.							
	AD	Berhout et al., "Acoustic Control By Wave-Field Synthesis," <u>Journal of the Acoustic Society of America</u> , Vol. 5, pp. 2764-2778, 1993.							
	AE	Goodwin Michael M.; Elko, Gary W., "Constant Beamwidth Beamforming," <u>IEE Conference on Acoustics, Speech, and Signal Processing</u> , Volume 4, pp. 1-169-1-172, 1993.							
	AF	Flanagan, J.H. et al. "Autodirective Micro Systems," <u>Acustica</u> , Volume 73, pp. 58-71, 1991.							
	AG								
	AH								
	AI								
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	AK								
	AL								
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